

# Cypress

## Essentials On-line

### Course Length

- 4 Days (4 x 3.5 hour sessions on-line, please note that session length may vary depending on number of delegates and other factors)

### Description

- Introductory course covering essential concepts for using Cypress, focussing on developing reliable automated GUI tests for Web, also applies to any platform (Windows, Mac, Linux).

### Delivery Method

- Live online training course (Instructor-Led), delivered over 4 sessions of approximately 3.5 hours each. You will be provided a workbook for the course and homework exercises between sessions.
- Sessions are recorded so you can review what you have learned at a later date

### Course Pre-requisites

- None

### Key Points

#### Introduction

What is Cypress, Pros & Cons of Cypress, Supported Browsers, Help References

#### JavaScript (Optional)

History & Terms, Executing JavaScript in the Console, Syntax Basics, Objects, String Functions, Functions, Loops

#### Visual Studio Code IDE

IDE Requirements, NodeJS, Installing & configuring VS Code features, VS Code extensions

#### Cypress Setup

Using npm, the package.json file, Installing Cypress, Cypress VS Code Extensions, Intellisense, The Test Runner, Cypress Folder Structure (Scaffolding)

#### First Test

Creating your first Spec File, Selector Playground

#### Debugging & Logging

Chrome Development Tools, Steeping through your code, Async/Sync, .debug(), logging & screenshots

#### Web Page anatomy

Introduction to HTML & Web Page Anatomy  
CSS Notation, generating Selectors

#### Locators

Locator Methods, Chaining Locators, Using .within(), traversing web elements, regular expressions, which locators to use

#### Actions

Common Actions, Action options, Drop-down lists

#### Synchronisation

Waiting for Elements to appear, Local Timeouts, Test Spec Timeout, Global Timeout Config, CLI Parameters for Timeouts, Wait

#### Mocha

What is Mocha?, Spec Structure, Enabling/Disabling Tests, Hooks, Mocha Snippets for VS Code

#### Asserts

Chai Styles, Implicit Asserts, Regular Expressions, Explicit Asserts, When NOT to Assert

#### Custom Commands & Function Libraries

Adding Cypress Commands

#### Fixtures

Using Hooks to load Fixture Test Data  
Environment Variables

#### Alerts

Handling Alerts, capturing Alert messages

#### Command Line Interface (CLI)

Using npx & npm aliases  
CLI parameters

#### Test Organisation

Folder structure, using grep, using tags

#### Cypress Cloud

Setting up & using Cypress Cloud, other report types

#### Continuous Integration

Setting up pipelines in Azure DevOps (ADO)  
JUnit reports, npm alias

4  
Sessions

The  
comprehensive  
introductory  
course for  
Cypress

Recommended  
for any new  
users of  
Cypress